

- Show your working. Marks may be given for a correct method even if the answer is incorrect.
- Answer **all** the questions.

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- Do **not** write in the bar codes.
- Do **not** write outside the box bordering each page.
- Write your answer to each question in the space provided.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this Section is 25.
- Section B starts with question 8.
- You are expected to use a calculator in Section B of this paper.

FOR	EXA	MIN	ER'S	USE
	-///			000

SECTION B

TOTAL

This document consists of **8** printed pages.

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Formulae Sheet



Area of trapezium = $\frac{1}{2}(a+b)h$



Volume of prism = (area of cross-section) × length

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8 A farm shop sells two types of tomato, *Andor* and *Baltimore*. Six tomatoes of each type were weighed.

For the six *Andor* tomatoes, the mean weight was 82 g and the range was 35 g. For the six *Baltimore* tomatoes, the weights in grams were

62 74 86 91 84 77.

(a) Complete this table.

	Andor	Baltimore
Mean	82 g	g
Range	35 g	g

[4]

(b) Ben says,

"Andor tomatoes weigh less than Baltimore tomatoes."

Is Ben right? Explain how you decided.

(c) The probability that a customer at the farm shop buys tomatoes is 0.3.

What is the probability that a customer does not buy tomatoes?



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9 This scale drawing shows two villages, Aldwyn (A) and Beckram (B).



(a) Find the distance between the two villages.

(**a**) km [2]

(b) Measure the bearing of Beckram from Aldwyn.

(b)° [1]

(c) Copham is due West of Aldwyn.

Give the three-figure bearing of Copham from Aldwyn.

(c)° [1]

10	(a)	Simplify.

(i) 5x + 3x

(**a**)(**i**) [1]

(**ii**)[2]

(ii) 3a + 4b + 2a - b

(**b**) Solve.

(i) 18 = 3x

(**b**)(**i**)[1]

(ii) 2x - 9 = 7

(ii)	 [2]
	6

11 (a) For each of these statements, write whether it is true or false for a **rhombus**.

	True / False
It has four equal sides.	
It has only one pair of equal angles.	
Its diagonals have equal length.	
Its diagonals bisect each other at right-angles.	

(**b**) Sketch a kite.

[2]

[1]

3

12 (a) The Khan family spent 120 minutes on the internet one day.

Aziz Khan used $\frac{2}{5}$ of these 120 minutes.

The Marsh family spent 60 minutes on the internet that day. Sheila Marsh used 90% of those 60 minutes.

Who spent more time on the internet, Aziz or Sheila, and by how much? Show how you decide.

(a) by minutes [5]

(b) The Devine family spent 200 minutes on the internet. Sophie Devine used 60 of these 200 minutes.

What percentage of the Devine family internet time did Sophie use?

(b)% [1]

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